- ☐ Complete brake system test and inspection
- ☐ Engine and transmission leak detection and diagnosis
- ☐ Shifter linkage, driveshaft giubo, CV joints, and center support bearing inspection
- ☐ Exhaust system inspection, including hanger replacement

You may also want to pick up these other helpful items:

- ☐ Magnetic drain plug
- ☐ S50 timing chain tensioner upgrade
- ☐ Bentley Service Manual (does not cover the S38 but is filled with other useful E34 info)
- ☐ Peake Service Light Reset Tool

E39 Maintenance Recommendations

5,000-Mile Service

- ☐ Engine oil change with filter, using BMW 5W-30, BMW-Castrol 10W-60, or Motul
- ☐ Install or clean magnetic drain plug
- ☐ Replace drain bolt crush washer
- ☐ Reset oil service/maintenance light
- ☐ Inspect and top off any other fluids

30,000-Mile Service

- ☐ Engine oil change with filter, using BMW 5W-30, BMW-Castrol 10W-60, or Motul
- ☐ Reset oil service/maintenance light
- ☐ Air filter replacement or cleaning for aFe/K&N type
- ☐ Fill and bleed cooling system
- ☐ Transmission fluid change, using Red Line ATFD4 or Motul ATF
- ☐ Differential fluid change, using Red Line 75W-140, Motul GearComp 75W-140, or OEM oils
- ☐ Brake fluid flush/bleeding
- ☐ Fuel filter replacement
- ☐ Engine and A/C serpentine belt replacement
- ☐ Inspect belt roller pulleys (drag and rotation), main accessory pulleys (cracking), and belt tensioners
- ☐ Complete chassis inspection, including front control arms, tie rods, ball joints, wheel bearings, rear trailing arm bushings, rear upper shock mounts, rear subframe mounts, rear sway bar mounting tabs, and axle shaft boots

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- ☐ Complete brake system test and inspection
- ☐ Engine and transmission leak detection and diagnosis
- ☐ Shifter linkage, driveshaft giubo, U-joint, CV joint, and center support bearing inspection
- ☐ Exhaust system inspection, including hanger replacement

60,000-Mile Major Service

- ☐ Spark plug replacement
- ☐ Ignition coil and coil boot inspection and replacement
- ☐ Engine oil change with filter, using BMW 5W-30, BMW-Castrol 10W-60, or Motul
- ☐ Reset oil service/maintenance light
- ☐ Air filter replacement or cleaning for aFe/K&N type
- ☐ Fill and bleed cooling system
- ☐ Transmission fluid change, using Red Line ATFD4 or Motul ATF
- ☐ Differential fluid change, using Red Line 75W-140, Motul GearComp 75W-140, or OEM oils
- ☐ Brake fluid flush/bleeding
- ☐ Fuel filter replacement
- ☐ Engine and A/C serpentine belt replacement
- ☐ Replace belt roller pulleys and belt tensioners
- ☐ Inspect main accessory pulleys for cracks
- ☐ Complete chassis inspection, including front control arms, tie rods, ball joints, wheel bearings, rear trailing arm bushings, rear upper shock mounts, rear subframe mounts, rear sway bar mounting tabs, and axle shaft boots
- ☐ Complete brake system test and inspection
- ☐ Engine and transmission leak detection and diagnosis
- ☐ Shifter linkage, driveshaft giubo, CV joint, and center support bearing inspection
- ☐ Exhaust system inspection, including hanger replacement

You may also want to pick up these other helpful items:

- ☐ Magnetic drain plug
- ☐ Bentley Service Manual
- ☐ Peake Fault Code Scanner and Service Light Reset Tool

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OUTSIDE BACK

The COOL Lifestyle

BMW M5 Maintenance Repair Information Card

When you buy a BMW M car, you are buying a vehicle that has been designed closer to the edge in the Motorsport division of BMW. *Preventive maintenance,* as the term implies, prevents costly repairs in the future. It is a good idea not only to preserve your investment but also to keep the car in top shape. Given the design approach, M cars simply perform better when they are properly maintained. Proper maintenance also makes aftermarket upgrades more worthwhile, as they can better perform and integrate within the car. Finally, complete service records for a well-maintained car can add substantially to its resale value.

When it comes to "service packages," there are two approaches. One is what the BMW factory would recommend to protect its legal interests; the other is a more aggressive but possibly more realistic maintenance package for each model. The more-aggressive packages incorporate lessons learned from performance-oriented mechanics who consider these cars cool.

Generally, an M car—and especially an M5—is a special car in BMW's lineup that takes special attention to maintain its lofty output. If you take care of an M car and its various needs, you will be rewarded with a better ownership experience, and the car will stand out from less-cared-for examples.

The engine in the E28 model was designed to be a true link to the racetrack. Based on BMW's racing engines of the day, the S38 engine is an exotic mix of racetrack technology and street-car concessions. To keep the car running at its peak, you should invest in its care—and that means a strict and regular maintenance schedule. The following recommendations generally come from mechanics who have been servicing these cars for many years and constitute what should be considered a larger, overall service plan.

In BMW nomenclature there is an *Inspection I* and an *Inspection II* service. In general, original equipment manufacturer (OEM) parts are recommended, but several performance alternatives that have been proven successful over time are also included. ■

Content adapted from Turner Motorsport

OUTSIDE FRONT

E28 Maintenance Recommendations

5,000-Mile Service

- ☐ Engine oil change with filter, using 10W-40 or 15W-50
- ☐ Install or clean magnetic drain plug
- ☐ Replace drain bolt crush washer
- ☐ Reset oil service/maintenance light
- ☐ Inspect and top off any other fluids

15,000-Mile Valve Adjustment Service

- ☐ Adjust valves
- ☐ Sparkplug replacement
- ☐ Valve cover gaskets (main and sparkplug recess)
- ☐ Consider engine V-belt replacement

30,000-Mile Service

- ☐ Valve adjustment per 15,000-mile service
- ☐ Sparkplug replacement
- ☐ Engine oil change with filter, using 10W-40 or 15W-50
- ☐ Reset oil service/maintenance light
- ☐ Transmission fluid change, using Red Line ATL or Motul 75W-80
- ☐ Differential fluid change, using Red Line 75W-90 or Motul Gear 300
- ☐ Air filter replacement or cleaning for use with K&N filter
- ☐ Brake fluid flush/bleeding
- ☐ Fuel filter replacement
- ☐ Engine V-belt replacement
- ☐ Fill and bleed cooling system
- ☐ Complete chassis inspection, including front control arms, tie rods, ball joints, wheel bearings, rear trailing arm bushings, rear upper shock mounts, rear subframe mounts, and axle shaft boots
- ☐ Complete brake system test and inspection
- ☐ Engine and transmission leak detection and diagnosis
- ☐ Shifter linkage, drive shaft giubo, CV joints, and center support bearing inspection
- ☐ Exhaust system inspection, including hanger replacement

60,000-Mile Major Service

- ☐ Ignition cap and rotor
- ☐ Ignition wire set
- ☐ Timing chain tensioner set
- ☐ Timing chain tensioner inspection or replacement
- ☐ Valve adjustment per 15,000-mile service
- ☐ Sparkplug replacement
- ☐ Engine oil change with filter, using 10W-40 or 15W-50
- ☐ Reset oil service/maintenance light
- ☐ Transmission fluid change, using Red Line MTL or Motul 75W-80
- ☐ Differential fluid change, using Red Line 75W-90 or Motul Gear 300
- ☐ Air filter replacement or K&N filter aftermarket replacement
- ☐ Brake fluid flush/bleeding
- ☐ Fuel filter replacement
- ☐ Engine V-belt replacement
- ☐ Fill and bleed cooling system
- ☐ Complete chassis inspection, including all suspension parts referred to in the 30,000-mile service
- ☐ Complete brake system test and inspection
- ☐ Engine and transmission leak detection and diagnosis
- ☐ Shifter linkage drive shift giubo, CV joints, and center support bearing inspection
- ☐ Exhaust system inspection, including hangers
- ☐ Consider replacing drain plug with a magnetic one
- ☐ S50 timing chain tensioner upgrade
- ☐ Consider purchasing the Bentley Service Manual for the E28

E34 Maintenance Recommendations

This package applies to the following BMWs: '89 to '95 BMW E34 M5 3.6

5,000-Mile Service

- ☐ Engine oil change with filter, using 10W-40 or 15W-50
- ☐ Install or clean magnetic drain plug
- ☐ Replace drain bolt crush washer
- ☐ Reset oil service/maintenance light
- ☐ Inspect and top off any other fluids

15,000-Mile Valve Adjustment Service

- ☐ Adjust valves
- ☐ Sparkplug replacement
- ☐ Valve cover gaskets (main and sparkplug recess)
- ☐ Engine V-belt replacement

30,000-Mile Service

- ☐ Valve adjustment per 15,000-mile service
- ☐ Sparkplug replacement
- ☐ Engine oil change with filter, using 10W-40 or 15W-50
- ☐ Reset oil service/maintenance light
- ☐ Transmission fluid change, using Red Line MTL or Motul 75W-80
- ☐ Differential fluid change, using Red Line 75W-90 or Motul Gear 300
- ☐ Air filter replacement or cleaning for aFe/K&N type
- ☐ Brake fluid flush/bleeding
- ☐ Fuel filter replacement
- ☐ Engine V-belt replacement
- ☐ Fill and bleed cooling system
- ☐ Complete chassis inspection, including front control arms, tie rods, ball joints, wheel bearings, rear trailing arm bushings, rear upper shock mounts, rear subframe mounts, and axle shaft boots
- ☐ Complete brake system test and inspection
- ☐ Engine and transmission leak detection and diagnosis
- ☐ Shifter linkage, driveshaft giubo, CV joints, and center support bearing inspection
- ☐ Exhaust system inspection, including hanger replacement

60,000-Mile Major Service

- ☐ Ignition cap and rotor
- ☐ Ignition wire set
- ☐ Timing chain tensioner inspection or replacement
- ☐ Valve adjustment per 15,000-mile service
- ☐ Sparkplug replacement
- ☐ Engine oil change with filter, using 10W-40 or 15W-50
- ☐ Reset oil service/maintenance light
- ☐ Transmission fluid change, using Red Line MTL or Motul 75W-80
- ☐ Differential fluid change, using Red Line 75W-90 or Motul Gear 300
- ☐ Air filter replacement or cleaning for aFe/K&N type
- ☐ Brake fluid flush/bleeding
- ☐ Fuel filter replacement
- ☐ Engine V-belt replacement
- ☐ Fill and bleed cooling system
- ☐ Complete chassis inspection, including front control arms, tie rods, ball joints, wheel bearings, rear trailing arm bushings, rear upper shock mounts, rear subframe mounts, and axle shaft boots